

Jerry Long
3608 Walton Way
Kokomo, IN 46902

Federal Communications Commission

Dear Sirs,

I am commenting regarding the LightSquared petition that "GPS is not entitled to protection from interference".

My position is that GPS *is* entitled to perpetual protection from interference from transmissions in adjacent spectrum. Furthermore, the LightSquared waiver to operate a terrestrial network in the MSS spectrum immediately adjacent to the GPS spectrum should be revoked.

GPS is a vital national resource that is used by many industries and provides the US a key competitive advantage in the global economy. To threaten this resource solely for the commercial interests of LightSquared would be a grave mistake.

The MSS band was designated as such for a reason - only satellite services should be operated in spectrum that is adjacent to other satellite services. The early designers of the original spectrum allocation plan knew that higher power terrestrial networks operating in adjacent spectrum to lower power satellite services would not be technically feasible due to desensitization of satellite receivers by the stronger adjacent terrestrial transmissions.

I will accept the possibility that some portion of LightSquared's 59 MHz of spectrum could be used for a terrestrial network if a sufficient guard band were left adjacent to the GPS spectrum and the power levels of the terrestrial network were kept to a sufficiently low level. However, such a proposal would have to be thoroughly tested and the results accepted by all stakeholders in GPS.

I write this from the perspective of an aviation GPS user and the designer of high frequency digital communications receivers. My technical credentials can be viewed at:

http://www.linkedin.com/profile/view?id=7236952&authType=name&authToken=09OA&locale=en_US&pvs=pp&trk=ppro_viewmore

Thank You and Regards,

Jerry Long